

AMENDMENTS TO THE CLAIMS

Please cancel Claims 29 to 49, and amend the remaining claims to read as set forth in the following listing of claims.

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-49 (Cancelled)

50. (Currently amended) A glue gun comprising:

a main housing defining a combustion chamber within which fuel gas is converted to heat for heating the main housing,

an exhaust gas port from the combustion chamber for exhausting burnt gases therefrom,
a working body member of heat conductive material in heat conducting engagement with the main housing for receiving heat therefrom, the working body member defining an elongated heating chamber for receiving and melting hot melt glue therein,

a dispensing nozzle extending from the working body member communicating with the heating chamber for receiving and dispensing melted glue therefrom,

~~a~~ an exhaust gas passageway located adjacent the dispensing nozzle and extending from the exhaust gas port to an exhaust gas outlet ~~past the working body member~~ for accommodating exhaust gases from the exhaust gas port to the exhaust gas outlet for transferring heat from the exhaust gases to the ~~working body member~~ dispensing nozzle, and

~~a heat exchange means comprising~~ a plurality of spaced apart heat exchange fins in direct heat conducting contact with the dispensing nozzle, and extending directly from the working

~~body member~~ dispensing nozzle into the exhaust gas passageway ~~for transferring heat from the exhaust gases to the working body member for reducing the temperature at which the exhaust gases exit from the heating device through the exhaust gas outlet, the heat exchange fins defining to form the exhaust gas passageway into~~ a circuitous exhaust gas passageway through which the exhaust gases pass between the exhaust gas port and the exhaust gas outlet[[]] for transferring heat from the exhaust gases to the dispensing nozzle.

51. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins extend longitudinally along and transversely from the dispensing nozzle.

52. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins are formed integrally with the dispensing nozzle.

53. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins extend from the dispensing nozzle in a staggered formation for forming the circuitous exhaust gas passageway.

54. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins are parallel or inclined to each other.

55. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins extend on respective opposite sides of the dispensing nozzle for defining a pair of exhaust gas passageways extending one on each side of the dispensing nozzle.

56. (New) A glue gun as claimed in Claim 55 in which the respective exhaust gas passageways merge adjacent the exhaust gas port and adjacent the exhaust gas outlet.

57. (New) A glue gun as claimed in Claim 50 in which a cover is provided around at least a portion of the dispensing nozzle adjacent the working body member for defining with the dispensing nozzle and the heat exchange fins each exhaust gas passageway.

58. (New) A glue gun as claimed in Claim 50 in which the main housing is an elongated main housing defining the combustion chamber as an elongated combustion chamber and extending from an upstream end to a downstream end, the exhaust gas port being located adjacent the downstream end, and the dispensing nozzle extending from the working body member adjacent the downstream end of the main housing.

59. (New) A glue gun as claimed in Claim 58 in which the working body member extends longitudinally along the main housing from the upstream end to the downstream end thereof, and the dispensing nozzle extends in a downstream direction from the working body member beyond the downstream end of the main housing.

60. (New) A glue gun as claimed in Claim 58 in which the heating chamber of the working body member extends between an upstream end and a downstream end of the working body member, and the dispensing nozzle extends from the working body member at the downstream end thereof.

61. (New) A glue gun as claimed in Claim 58 in which the dispensing nozzle extends axially from the working body member relative to the heating chamber.

62. (New) A glue gun as claimed in Claim 60 in which a glue receiving inlet is provided at the upstream end of the working body member for accommodating glue into the heating chamber in an elongated stick form.

63. (New) A glue gun as claimed in Claim 50 in which the working body member is located relative to the main housing so that the heating chamber and the combustion chamber extend parallel to each other.

64. (New) A glue gun as claimed in Claim 50 in which a fuel gas inlet is located at an upstream end of the combustion chamber for receiving fuel gas for converting to heat in the combustion chamber.

65. (New) A glue gun as claimed in Claim 50 in which a gas catalytic combustion element is located in the combustion chamber for converting fuel gas to heat.

66. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet to a temperature approximately similar to the temperature of the dispensing nozzle.

67. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet to a temperature approaching the temperature of the dispensing nozzle.

68. +(New) A glue gun as claimed in Claim 50 in which the heat exchange fins are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet to a temperature just slightly above the temperature of the dispensing nozzle adjacent the heat exchange fins.

69. (New) A glue gun as claimed in Claim 50 in which the heat exchange fins are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet to a temperature not greater than 50°C above the temperature of the dispensing nozzle adjacent the heat exchange fins.